

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/FR2004/000054

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 E06B3/673

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 E06B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 911 779 A (LENHARDT KARL) 27 March 1990 (1990-03-27) column 16, line 53 -column 18, line 31 figures	1-4,8-24
A	FR 2 807 783 A (SAINT GOBAIN VITRAGE) 19 October 2001 (2001-10-19) the whole document	1
X	FR 2 636 380 A (QUELEN' ANDRE) 16 March 1990 (1990-03-16)	1-4,8-24
Y	page 5, line 12 -page 9, line 36	5-7
Y	US 3 473 988 A (DROUET MICHEL ET AL) 21 October 1969 (1969-10-21) column 3, line 58 -column 4, line 40 figures	5-7
	--- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

19 May 2004

Date of mailing of the international search report

01/06/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Verdonck, B

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/FR2004/000054

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 886 013 A (BOWSER GEORGE H ET AL) 27 May 1975 (1975-05-27) figures ----	5-7
A	EP 0 671 534 A (VIANELLO FORTUNATO D N) 13 September 1995 (1995-09-13) figures ----	5-7
A	EP 0 122 405 A (SZABO MASCHBAU GMBH & CO KG ;FLACHGLAS AG (DE)) 24 October 1984 (1984-10-24) page 5, line 19 -page 6, line 3 figures -----	20-22

## INTERNATIONAL SEARCH REPORT

 International Application No  
 PCT/FR2004/000054

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4911779	A	27-03-1990	DE 3539879 A1	21-05-1987
			AT 41690 T	15-04-1989
			CA 1281043 C	05-03-1991
			DE 3662546 D1	27-04-1989
			EP 0222349 A2	20-05-1987
			US 5051145 A	24-09-1991
FR 2807783	A	19-10-2001	FR 2807783 A1	19-10-2001
			AU 5048001 A	30-10-2001
			BR 0109986 A	23-03-2004
			CA 2405528 A1	25-10-2001
			CN 1423723 T	11-06-2003
			CZ 20023390 A3	15-01-2003
			EE 200200587 A	15-04-2004
			EP 1272725 A1	08-01-2003
			WO 0179644 A1	25-10-2001
			HU 0300537 A2	28-07-2003
			JP 2003531091 T	21-10-2003
			NO 20024705 A	01-10-2002
			SK 14652002 A3	07-10-2003
			ZA 200206727 A	26-02-2003
FR 2636380	A	16-03-1990	FR 2636380 A1	16-03-1990
US 3473988	A	21-10-1969	FR 1439844 A	27-05-1966
			BE 664313 A	22-11-1965
			CH 436659 A	31-05-1967
			DE 1285696 B	19-12-1968
			GB 1102983 A	14-02-1968
			LU 48673 A1	24-11-1965
			NL 6506644 A	26-11-1965
US 3886013	A	27-05-1975	NONE	
EP 0671534	A	13-09-1995	IT TV940025 A1	07-09-1995
			AT 171508 T	15-10-1998
			DE 69504881 D1	29-10-1998
			EP 0671534 A1	13-09-1995
			JP 7315858 A	05-12-1995
EP 0122405	A	24-10-1984	DE 3310441 C1	06-09-1984
			AT 20117 T	15-06-1986
			EP 0122405 A1	24-10-1984
			US 4559001 A	17-12-1985